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M2 - [01] F012 F013 F014 F015 F016 F019 F123 F199 H4 H403 H405 H423 H424

H483 H8 J0 J011 J012 J013 J014 J1 J111 J112 J113 J171 J4 J471 K0 L8

L815 L819 L821 L822 L823 L824 L832 M126 M129 M141 M149 M280 M320 M413

M416 M510 M521 M522 M523 M530 M540 M620 M720 M903 M904 N134 N153 N161

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PA - (AOMO-N) AOMORI KEN

PN - JP6205687 A 19940726 DW199434 C12P19/14 003pp

PR - JP19920297598 19920629

XA - C1994-125643

XIC - C12P-019/14

AB - J06205687 Prodn. of mono- and oligo-galacturonic acid from pectins or pectic acid with an enzyme bound to a water insoluble carrier.

- The pectins are derived from plants, and pectic acid is obtained from pectins. They are treated with an esterase (e.g. pectin-lyase, pectic acid lyase, polygalacturonase and esterase) immobilised on a suitable carrier (e.g. chitosan beads).
- USE/ADVANTAGE - Mono- and oligo-galacturonic acid are used as an elicitor factor for the defensive response against microorganisms (e.g. E. coli) and plant diseases. They can be mass produced.
- In an example, 15 mg of a pectinase in 0.1 M HEPES buffer, pH 7.5, was covalently bound to 1 ml of 'Affigel 10' (RTM), a water insoluble carrier, packed in a column and adjusted to 20 deg.C. Citrus pectin was dissolved in 0.01 M acetate buffer, to make 0.3% soln., pH 4.5, filtered and passed through the column at a flow rate of 0.1 ml/min. The eluate was desalted with a cation exchanger and lyophilised to give a mixt. of mono- and polygalacturonic acid composed of 57% of monomer, 11% of dimer, 10% of trimer, 6% of tetramer and 5% of pentamer. (Dwg.0/1)

CN - 9434-10501-P

IW - PRODUCE MONO OLIGO GALACTURONIC ACID RESISTANCE INFECT PECTIN PECTIC ACID ENZYME FIX CARRY

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NC - 001

OPD - 1992-06-29

ORD - 1994-07-26

PAW - (AOMO-N) AOMORI KEN

TI - Prodn. of mono- and oligo-galacturonic acid for resisting infections - from pectin or pectic acid, using enzyme fixed to carrier